UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF PLANT INDUSTRY

WASHINGTON

CEREAL INVESTIGATIONS
CORN INVESTIGATIONS

January 31, 1923

Prof. Philip A. Munz,
Department of Botany,
Pomona College,
Claremont, Calif.

Dear Professor Munz:

As promised in my letter of January 25, I am enclosing herewith a list of determinations of the material sent me, and am sending a copy also to Mr. Johnston, whom I met at the Gray Herbarium of Harvard University during the Boston meetings of the American Society.

I am very much interested in the discovery of orestera in the San Bernardino Mountains, as previously it has not been known south of the high peaks in the lower end of the Sierra Nevada. As I have indicated, the plant you collected differs from the typical material, markedly in the shape of the leaves and apparently in catkin characters also. I greatly hope that additional explorations may reveal more material. It looks to me at least like a distinct variety, but I shall wish to examine the material in the National Herbarium and also in my own private collection very carefully before I make a decision.

The specimen of Populus has been determined by Mr. Ivar Tidestrom, who is our best specialist on that genus here at Washington.

Your previous letter did not ask for the return of this material, but I am holding it subject to your order. If you wish it returned, I will be glad to send it; if you wish it deposited in the National Herbarium, I will have it placed there; or, if you intended it for my own private herbarium, I shall be glad, indeed, to have it. Because I am a willow specialist only outside of official time, I find it very convenient and desirable to maintain a private herbarium of willows, which now contains more than 4,000 sheets of American material.

Thanking you for the opportunity of studying this material, and trusting that the delay caused by overtime work on official matters has not handicapped you, I am,

Very sincerely yours,

C R Ball

(C. R. Ball)
Cerealist in Charge.

CRB:LT
Enc.

WILLOWS OF CALIFORNIA, 1922

Collected in San Bernardino Co.

by Philip A. Munz and Ivan M. Johnston.

5241 S. lasiolepis Benth. Occasional along streams. 3500 feet, Smith Water Canyon, near Quail Springs, Little San Bernardino Mountains, May 7, 1922.

5270 S. laevigata Bebb. Along small stream, 3500 feet, Keyes Ranch, Little San Bernardino Mountains, May 7, 1922.

5518 S. lasiolepis Benth. Along streams, 1 mile from Hemet Reservoir, 4550 feet, Hemet Valley, San Jacinto Mountains, May 21, 1922.

5642 S. scouleriana Barr Abundant along streams, in meadows 2 miles east of Bluff Lake, 7500 feet alt., Bear Valley, San Bernardino Mountains, June 10, 1922 (Expanding leaves densely silvery tomentose above).

5732 S. lasiolepis Benth. Along small stream, at 6900 feet alt., Bear Valley, San Bernardino Mountains, June 10, 1922.

5980 S. lutea watsoni Bebb. Common along streams, 7200 feet alt., Tahquitz Valley, San Jacinto Mountains, July 6, 1922.

6225 S. orestera Schn. var.? Glaciated Valley, 9300 feet alt., South Fork of Santa Ana River, San Bernardino Mountains, August 24, 1922. (Differs from species in longer, narrower leaves, and laxer aments. Not before reported south of the Sierras).

4975 Populus fremontii S. Wats Whitewater Ranch, near creek, 700 feet elev., Colorado Desert, April 14, 1922.